InBody370

User's Manual USA

Please note the important information below before reading this manual.

Warning

Failure to comply with safety warnings and regulations can cause serious injury or death.

Caution

Failure to comply with safety cautions and regulations can cause injury or property damage.

For any problems with the InBody370 or any clinical questions, contact:
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InBody370

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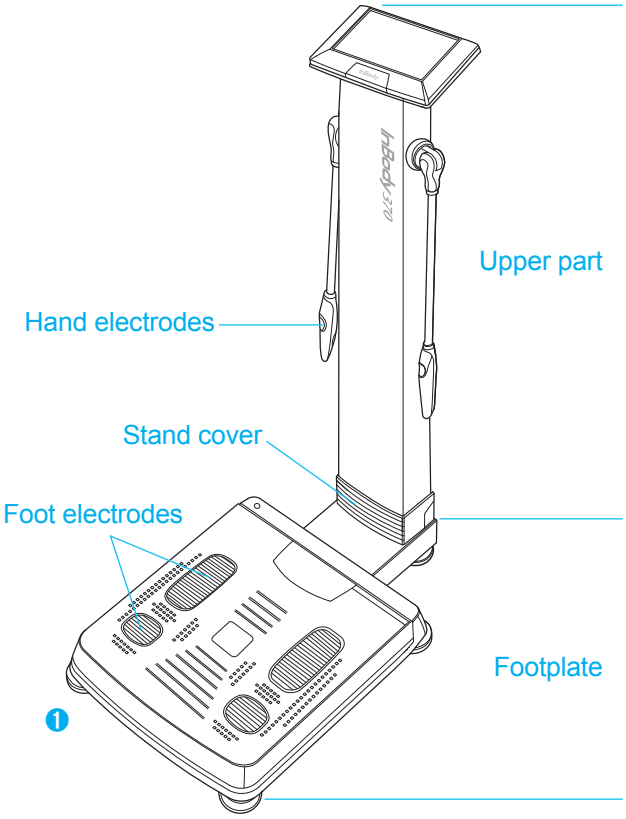
I. InBody370 Installation

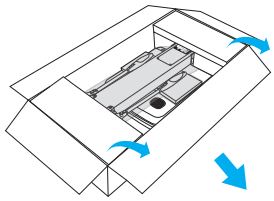
A. Product Components

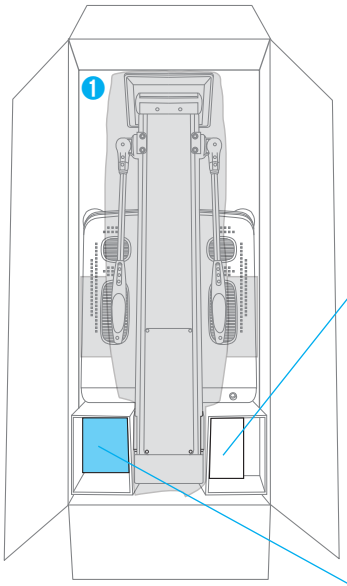
The InBody370 consists of the following components. Please make sure all of the following components are present.

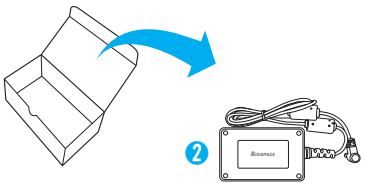
* Please inspect each component of the InBody370 for defects prior to installation.

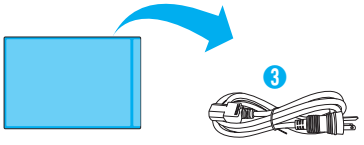
❶ InBody370
❷ Adapter (DC 12V, 3.4A) 1 EA
❸ Power cord 1 EA
❹ User's Manual 1EA
❺ Hexagonal Wrench 1 EA
❻ Joint Screw 1 EA











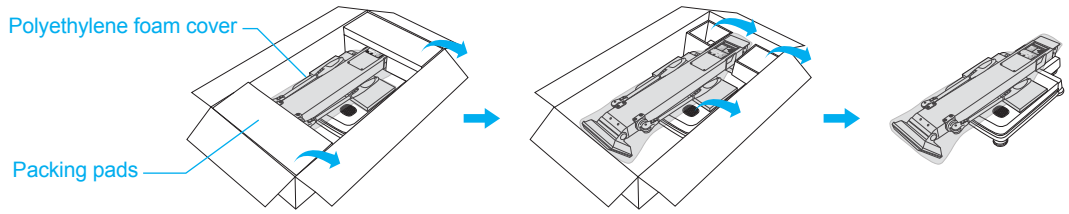
B. Operating Environment

Please make sure that the environment is adequate for the InBody370 installation. This equipment is designed for indoor use. If installing outdoors, the following requirements must be fulfilled.

Temperature range	50 ~ 104°F (10 ~ 40°C)
Relative humidity	30 ~ 75% RH
Atmospheric pressure	70 ~ 106kPa

C. Installation Instructions

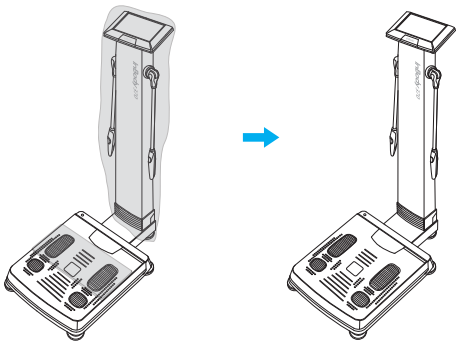
1. Open the packing box of the InBody370 and remove the packing pads. Then take the InBody370 out of the box.



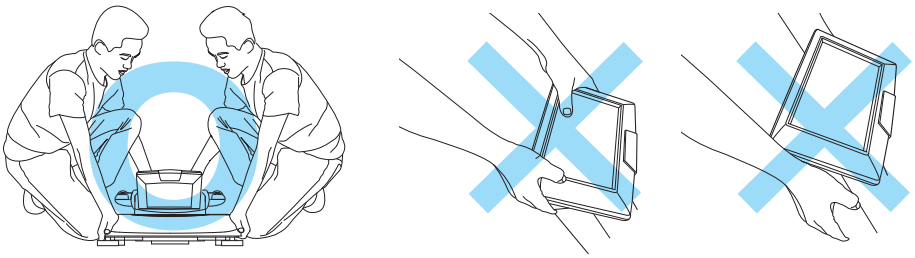
Caution

- If you have any problems installing your InBody370, please contact BIOSPACE for assistance.
- Do not transport the equipment by holding the screen portion or the joints of the hand electrodes.
- Keep the packing materials provided for repacking the equipment in the future. Other wastes should be disposed of according to relevant laws and regulations.

2. After raising the upper part of the InBody370 all the way, remove the polyethylene foam cover. Then remove the foam padding from the footplate.



* Please refer to the following illustrations to properly transport the equipment.

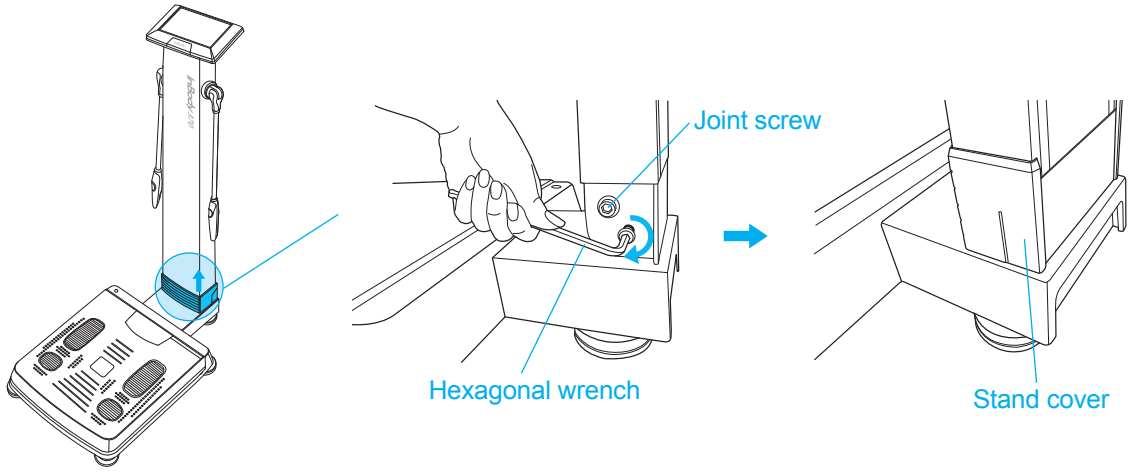


Caution

- Using the InBody370 on carpet may cause static electricity, which could damage the equipment. If installing the InBody370 on carpet is unavoidable, please use an antistatic mat.
- Install the InBody370 on a leveled, non-vibrating surface. Installing the equipment on an uneven surface may cause the examinee to fall down. Test results may also be inaccurate.
- Never clean the hand and foot electrodes with liquid spray or detergent directly. The equipment may corrode and/or malfunction if the liquid or detergent leaks inside. Use the InBody Tissue when cleaning the InBody370.

  * For inquires regarding the InBody Tissue, Please contact BIOSPACE.

3. Raise the stand cover to reveal the joint screw. Tighten the joint screw connecting the upper part and footplate with a hexagonal wrench. After the upper part of the InBody370 is secured in place, cover the joint screw with the stand cover.

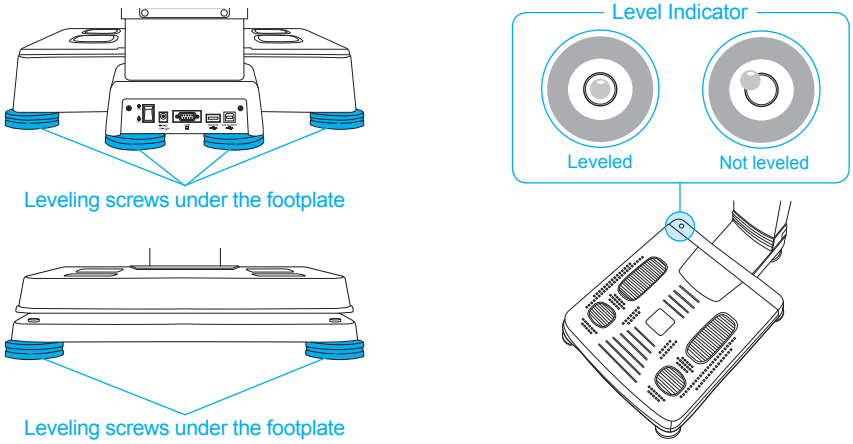


Caution

- A loose conjunction between the upper part and the footplate may affect test results. Please make sure to tighten the joint screw to secure the upper part straight-up on the footplate.

4. Level the InBody370 by rotating the leveling screws under the footplate to the left and right so that the air bubble is centered.

* Leveling the equipment is necessary for accurate measurement of weight. There are a total of 6 leveling screws.

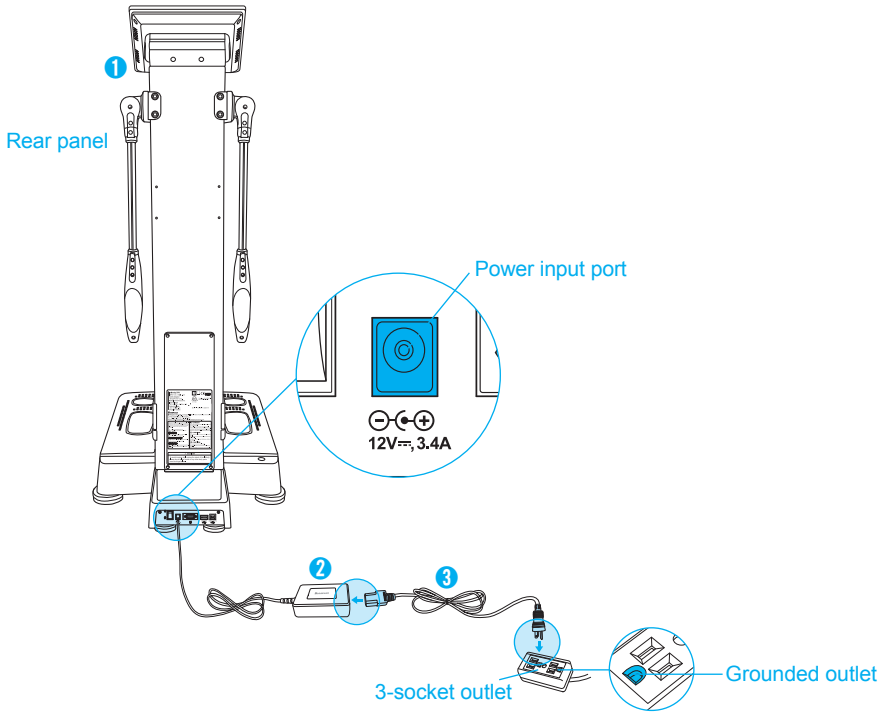


Caution

- Avoid injuring your hands when rotating the leveling screws under the footplate.

5. Connect the adapter (❷) to the power input port, which is located on the rear panel of the InBody370 (❶). Connect the adapter (❷) to the power cord (❸). Then, plug the power cord (❸) into a grounded 3-socket outlet.

∗ The InBody370 can be used in connection with other test equipment such as a stadiometer or data management software called Lookin' Body. For more information, please refer to 'A. Exterior and Functions 3. Rear Panel' in section 'V. Others' in this User's Manual.



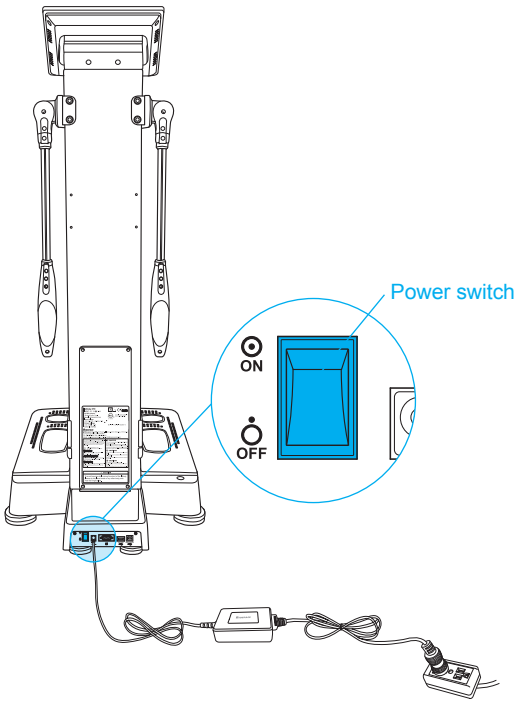
⚠ Warning

- Do not place the InBody370 in a location making it difficult to disconnect the power cord.
- Do not plug in or pull out the power cord with wet hands. There is a risk of an electric shock.
- Always use an outlet connected to the rated power (AC 100~240 V). Using other power rated outlets may result in fire or malfunction.
- When using a power surge protector, make sure the outlet or the extension cable has adequate power capacity.
- Do not disassemble or modify the equipment, including internal parts, without written consent from the manufacturer. This may cause electric shock or injury, product malfunction, inaccurate results, and will void the manufacturer's warranty.
- Do not directly contact the InBody370 with any other electronic devices when the InBody370 is on. This may result in an electric shock.

⚠ Caution

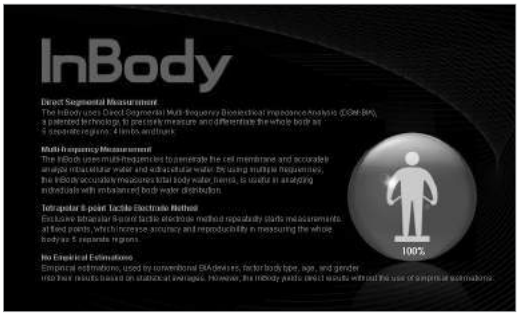
- If the InBody370 is not plugged into a grounded outlet, it may cause damage through electric surges or product malfunction. This may affect the test results.
- Test results may be inaccurate if the InBody370 is under electrical interference. Do not install the InBody370 near products that generate electrical interference such as fluorescent lights, large AC motor equipment (treadmill, vibration plate, refrigerator, air-conditioner, compressor, etc.), high-frequency thermal therapy equipments, or heating appliances. Do not share the power source of the InBody370 with other electrical devices. This may affect the test results.
- Always use the specified adapter provided by BIOSPACE, as it is a part of the InBody370. Using other adapters may result in malfunction of the InBody370.
- Operation of the InBody370 6,500 feet above sea level may affect the weight measurement.

6. Flip the power switch to turn on the InBody370.



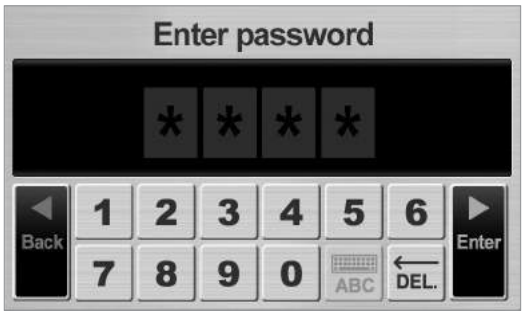
D. Initial Setup

1. The InBody370 automatically starts booting when it is turned on. While booting, it performs a self weight calibration.
   * While booting (about 2 minutes and 30 seconds), make sure there is nothing on top of the footplate. Please do not stand on the footplate, or place objects on the footplate.



2. Press the [SETUP] button on the screen, which appears when no one is on the footplate.

3. Input the password (default password: 0000) to have access the SETUP.



4. The SETUP will give you access to many different options such as basic settings, touch calibration, results sheet management, printing options, and more.

E. Connecting Printer and Stadiometer

1. Printer

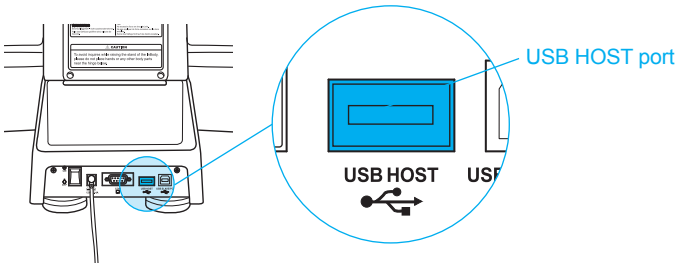
In order to print InBody Results Sheets, an InBody370 compatible printer is required.

∗ A list of printers compatible with the InBody370 can be found at http://www.inbodyservice.com.

1) First turn off the InBody370 and then the printer.

∗You may experience connection issues in connecting the printer to the InBody370 if the InBody is turned on.

2) Plug the USB cable provided with the printer into the USB HOST port on the rear panel of the InBody370 and plug the other end of the USB cable into the printer.



3) Turn on the printer.

4) Turn on the InBody370 and setup your printer under SETUP → Printer → 'Printer Type'.

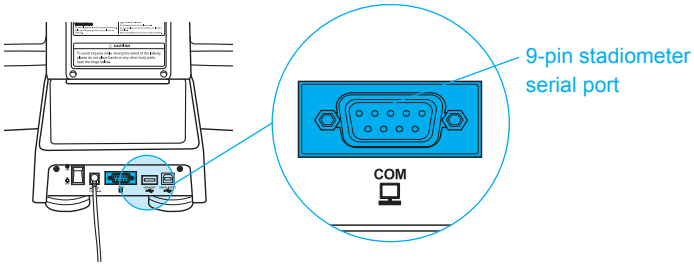
2. Stadiometer

If a stadiometer is connected to the InBody370, the height values measured by the stadiometer will be sent directly to the InBody370.

∗ Always connect a stadiometer from BIOSPACE.

1) Set serial port (COM1) as stadiometer in ‘Accessories’ under SETUP.

2) Plug the serial cable provided with the stadiometer to the 9-pin stadiometer serial port on the rear panel of the InBody370.



3) Turn on the stadiometer.

F. Maintenance

⚠ Caution

- Do not bend the handles of the hand electrode.
- Do not place any objects on the footplate.
- Do not apply excessive force on the equipment.
- Turn off the equipment if you are not using it for a day or longer.
- Do not allow any liquid substances contact to the equipment directly. Keep food and drinks away from the equipment. Substances getting inside the equipment can cause critical damage to the electronic components.
- Use a lint-free cloth to gently wipe the external surface of the equipment about once every week. Be careful not to scratch the LCD screen.
- When storing the InBody370, remove the batteries, repackage, and place the equipment on a leveled surface.

II. InBody Test

A. Precautionary Steps

⚠ Warning

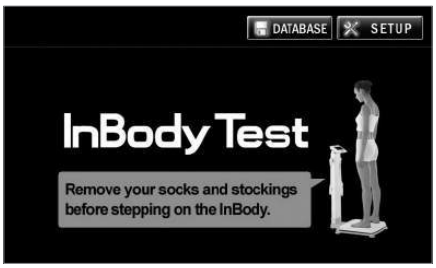
- Individuals with medical implant devices such as pacemakers, or essential support devices such as patient monitoring systems, must not use this equipment. Safe, low-level currents will flow through the body during the test, which may cause malfunctioning of the device or endanger lives.
- Bioelectrical Impedance Analysis (BIA) uses safe low level currents, which are not harmful to the body. However, we do not recommend pregnant women test.
- Children and people with limited mobility should be supervised or assisted when attempting to test on the InBody.
- After an individual with any kind of contagious disease or infection tests on the InBody, use an InBody Tissue to clean the equipment.

⚠ Caution

- Stand upright for about 5 minutes before testing. Taking the test immediately after lying in bed or sitting for a long period of time might result in a slight change in the test results. This is because body water tends to move to the lower body as soon as the person stands or gets up.
- Do not eat before testing. In cases where the examinee has already eaten, the test should be put off for at least two hours after the meal. This is because food mass is included in the examinee's weight and thus, may result in measurement errors.
- Use the bathroom before testing. Waste is not included in the body's compositional elements, but the volume of urine and excrement is included in the weight measurement affecting accuracy of the test results.
- Do not exercise before testing. Strenuous exercise or sharp movements can cause temporary changes in body composition. Even light exercise can change your body composition temporarily.
- Take the test in the morning, if possible. Body water tends to gravitate towards the lower body throughout the day, affecting accuracy of the test results.
- Thoroughly wipe the palms and soles with the InBody Tissue before testing. Testing may be difficult if the examinee's palms and soles are too dry or if the examinee has too many calluses.
  ∗ For inquires regarding the InBody Tissue, please contact BIOSPACE.
- Avoid contact with the examinee during testing. Contact may lead to interference affecting test results.

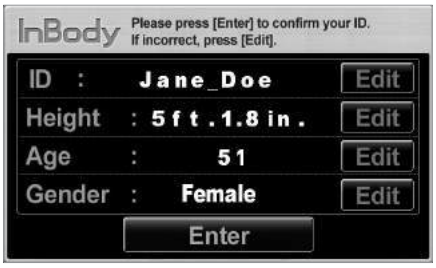
B. Test Instructions

1. Step on the footplate when the screen below is shown.



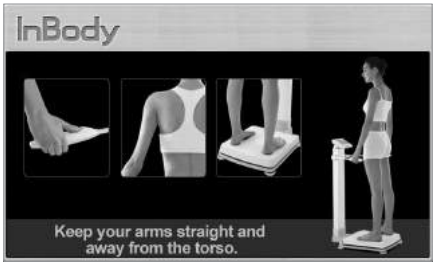
2. Weight measurement begins.

3. Input personal information and confirm your personal profile.



4. Maintain proper posture to take the test.

∗ Refer to 'C. Test Posture' for the proper posture.



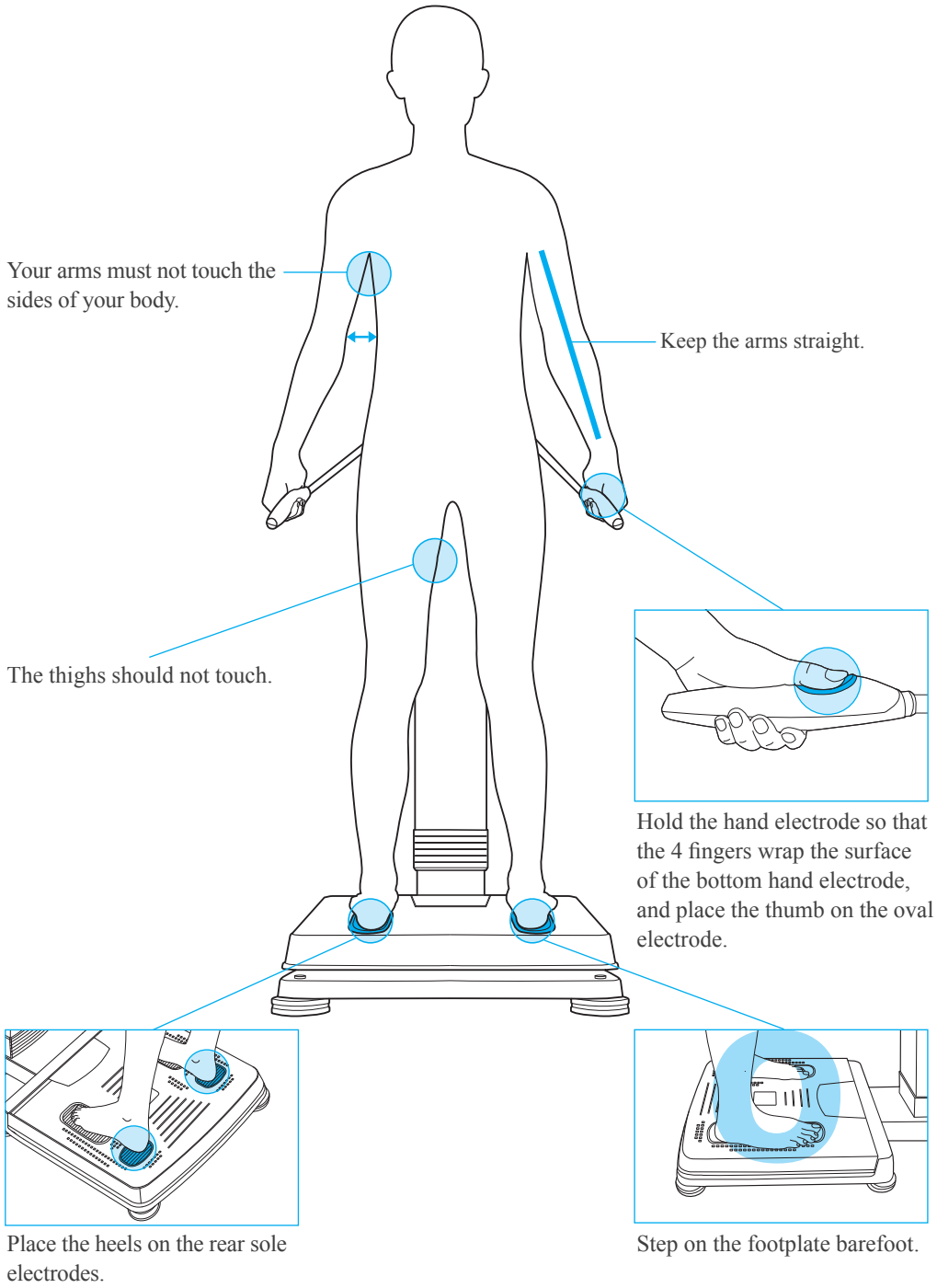
5. The InBody Test begins.

6. When the test is completed, the results will be shown on screen.

C. Test Posture

The examinee must maintain proper posture to have accurate test results.

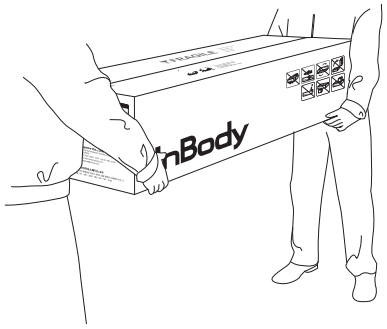
∗ The test will proceed when there is good electrical contact.


Your arms must not touch the sides of your body.
Keep the arms straight.
The thighs should not touch.
Hold the hand electrode so that the 4 fingers wrap the surface of the bottom hand electrode, and place the thumb on the oval electrode.
Place the heels on the rear sole electrodes.
Step on the footplate barefoot.

Ⅲ. Transportation and Storage

A. Cautions during Transportation

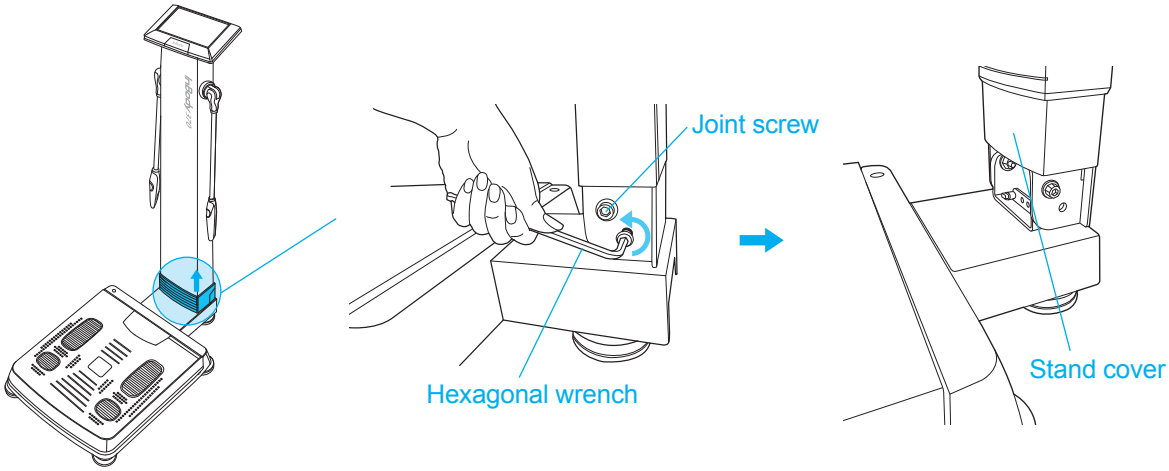
When transporting, have two people keep the InBody370 parallel to the ground.



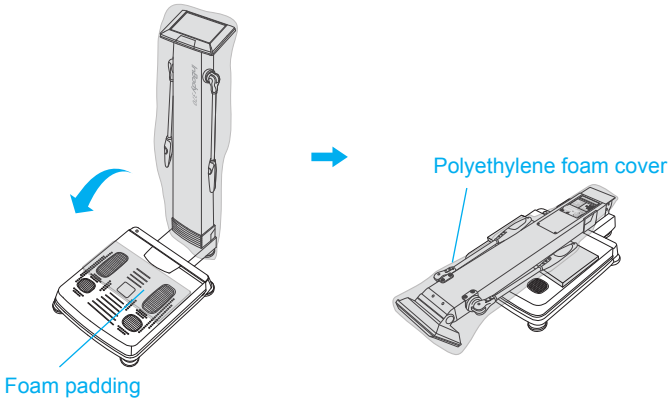
B. Repacking Instructions

Once the InBody370 is installed, avoid transporting the equipment. If it must be transported, repack it in the following sequence.

1. Turn off the InBody370.
2. Separate the connected adapter, cords, and cables from the equipment.
3. Remove the stand cover then remove the joint screw, located on the InBody370 joints, by rotating the hexagonal wrench counter-clockwise.



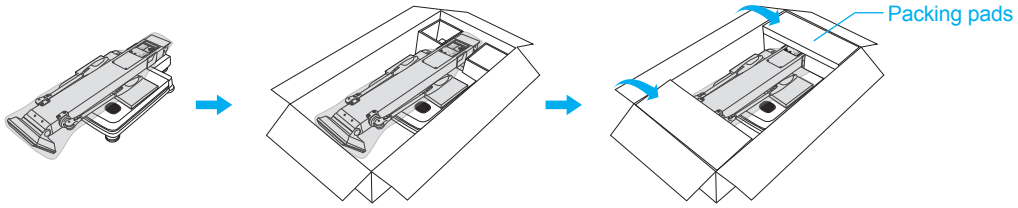
4. Place the foam padding on the footplate of the InBody370. Cover the InBody370 with the polyethylene foam cover then lower the upper part.



Caution

- Always use the protective packing materials provided by BIOSPACE when repacking.

5. Put the InBody into the packing box. Place the packing pad over the equipment and tape up the packing box.



C. Transportation and Storage Environment

The InBody370 should be transported or stored under the following conditions.

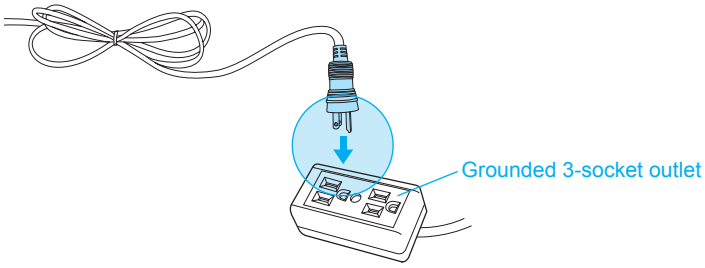
Temperature range	-4 ~ 158°F (-20 ~ 70°C)
Relative humidity	10 ~ 95% RH (No Condensation)
Atmospheric pressure	50 ~ 106kPa

IV. Frequently Asked Questions (FAQ)

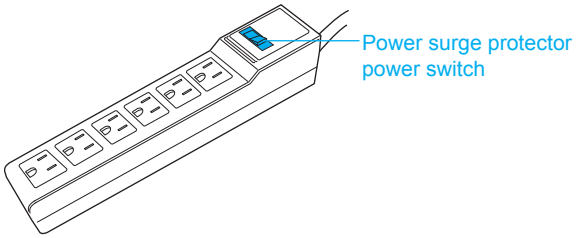
Even if no problems arise from the equipment, users may still have many questions, especially regarding clinical procedures. Few common questions and answers are listed below. If your questions are not answered here, please contact BIOSPACE.

A. Regarding the InBody

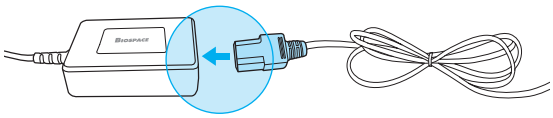
Question	Answer
• My InBody370 does not turn on.	• Insert the power plug completely into a grounded 3-socket outlet.



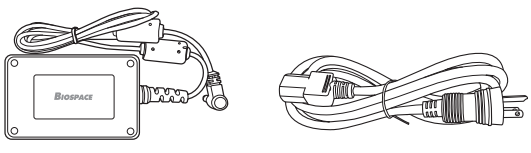
• When using a power surge protector, the equipment may not power on if the power switch on the power surge protector is turned off. Check the power surge protector which the power plug is connected to.



• The problem may occur if the power cord is not completely plugged into the adapter. Insert the power cord completely into the adapter.



• The problem may occur if you are using a power adapter that was not provide by BIOSPACE. Always connect a power adapter (DC 12V, 3.4 A) provided by BIOSPACE.



Question	Answer
• My touchscreen is inaccurate or not responsive.	• Calibrate the touchscreen under ‘Touchscreen Alignment’ in SETUP. ∗ Press firmly to optimize touchscreen response. • If you cannot enter the SETUP due to touchscreen problems, please restart the InBody. The InBody stores the last touchscreen alignment and will automatically recall the previous touchscreen settings. The InBody can also recognize if its touchscreen alignment is off screen and will automatically take the user to the calibration screen after restarting
• I would like to connect other equipment to the InBody370.	• Please refer to ‘E. Connecting Printer and Stadiometer’ in section ‘I. InBody370 Installation’ in this User’s Manual.

B. Regarding the InBody Test

Some of the more common clinical questions are answered below. If additional questions or more clarification is desired, please contact BIOSPACE.

Question	Answer
• Must socks or stockings be removed for the InBody Test?	• Bare skin contact is essential in the analysis using the BIA method. Socks or stockings may cause a varying degree of distortion in the results. Socks or stockings must be removed to obtain accurate data.
• Is it okay to wear accessories (jewelry, watch, rings, etc) or metal objects while taking the InBody Test?	• The ideal condition for the analysis is simply standing with no clothes and wearing no accessories. However, this may not always be possible. Therefore, we recommend that the examinee remove as many clothing items and accessories that may affect the weight as possible.
• Who cannot take the InBody Test or will have difficulties taking the InBody Test?	• Individuals with medical implant devices such as pacemakers, or essential support devices such as patient monitoring systems, must not use this equipment. The currents will flow through the body during the test, which may cause malfunctioning of the device or endanger lives. • Children, amputees, or the elderly, may have trouble testing if they cannot hold the hand electrodes or stand still on the foot electrodes.
• Can a person with metal implants in the body take the InBody Test?	• The ideal test methodology is where the examinee does not wear anything metallic. Individuals with metallic implants may have skewed test results due to the conductivity of the metal affecting the results. • As the weight of clothes and other wear affects the results of the body composition analysis, it is strongly recommended to take off any heavy clothing or metallic wear. Except for the weight, jewelry does not effect the body composition analysis, as the contact point with the InBody120 are hands and feet.
• I have limited mobility and cannot maintain proper posture for the InBody Test. How can I still be tested?	• It is impossible to test if an individual cannot maintain contact with the hand or foot electrodes. BIOSPACE has a line of products that conduct body composition analysis on bed ridden examinees that allow the patients to stay in bed. For more information, please contact BIOSPACE.
• Is the electric current harmful to the body?	• The physiological electric impedance method uses safe low level currents that is not harmful to the body. The safety of the InBody has been tested and proven. The InBody products have been approved for medical use by the CE and all over the world. Many medical institutions around the world are actively using the InBody.
• How often should I take the InBody Test?	• Individuals who are undergoing any programs that may affect their body composition are strongly recommended to have the InBody Test done every two to four weeks. • Consistent testing will allow individuals to track and monitor their progress over time.
• What are the precautionary steps to ensure accuracy of the InBody Test?	• Please refer to ‘A. Precautionary Steps’ in section ‘II. InBody Test’ in this User’s Manual.

V. Others

* The InBody370 is manufactured according to the quality management procedure of BIOSPACE. BIOSPACE complies with the ISO9001 and ISO13485 which are international quality management systems.
* This equipment satisfies the IEC60601-1 (EN60601-1), an international safety standard for electronic medical equipment. This equipment also satisfies the IEC60601-1-2 (EN60601-1-2), an international standard for electromagnetic conformity.

A. Exterior and Functions

The following are the names and functions of each part of the InBody.

* Please inspect each component of the InBody370 for damage prior to installation.

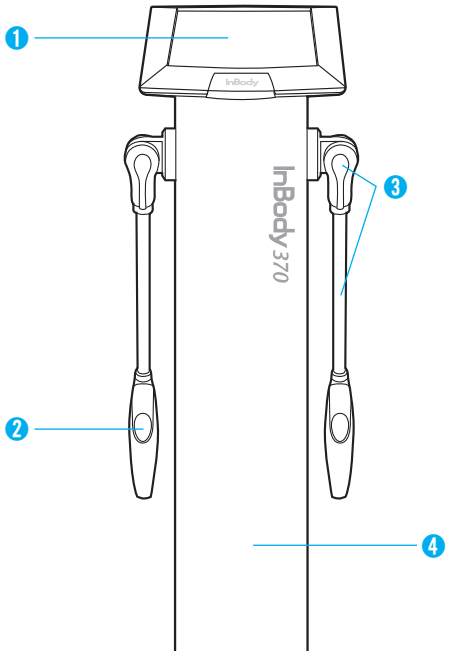
1. Upper Part

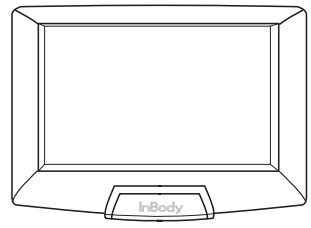
❶ LCD screen: Shows each stage of the test, instructions, test results, etc. You can touch the screen to input the data required for the test, configure settings, or view test results.

❷ Hand electrode: Examinee holds the hand electrode so that the 4 fingers wrap the surface of the bottom hand electrode while the thumb is placed on the oval electrode.

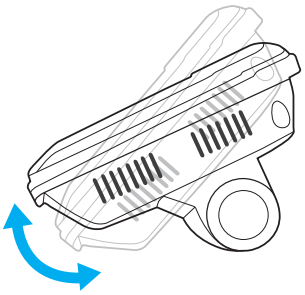
❸ Hand electrode joint and handle: Supports the hand electrode and encloses the wiring for the electrode.

❹ Body: Connects the upper part of the equipment to the lower part.





<Front>



<Side>

2. Footplate

❶ Front sole electrode: The examinee makes contact with this electrode by stepping with the front part of their foot.

❷ Rear sole electrode: The examinee makes contact with this electrode by stepping with the heel of their foot.

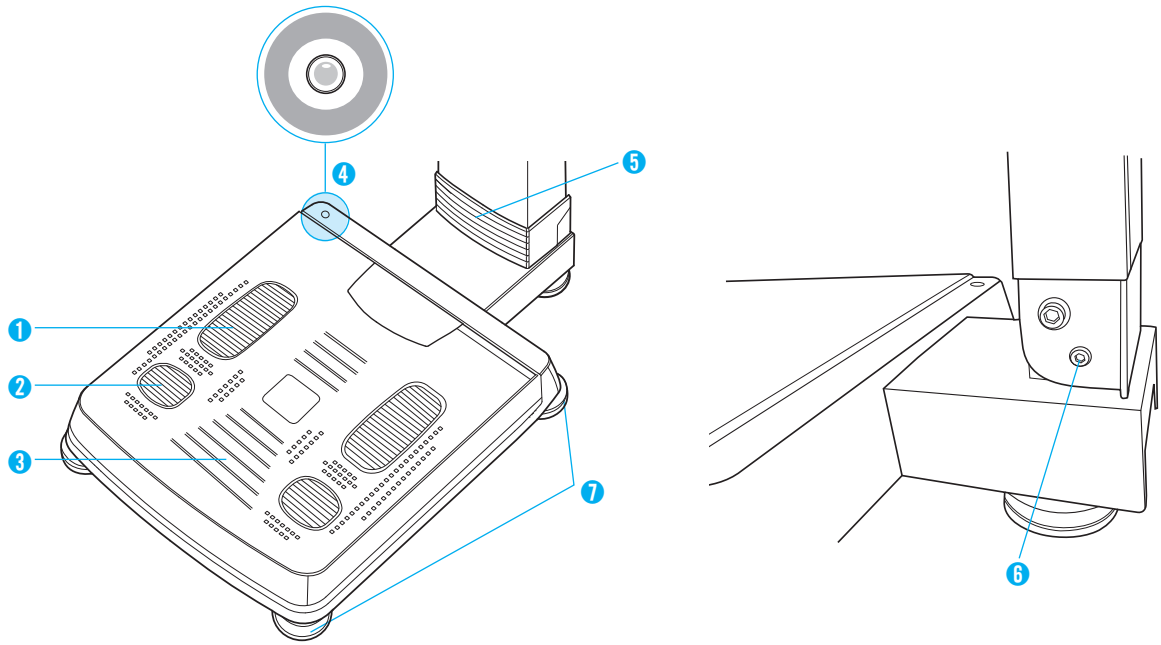
❸ Footplate: This is connected to the scale, which measures the examinee's weight.

❹ Level indicator: Indicates the current horizontal level of the InBody370.

❺ Stand cover: Used to cover the joint screw.

❻ Joint screw: Secures the upper part to the foot plate.

❼ Leveling screws: Used for adjusting the horizontal level of the equipment.



3. Rear Panel

❶ Speaker: Provides audible indication for test in progress, test complete, and successfully saved setting changes.

❷ Rear cover: Designed to be opened only by BIOSPACE service personnel for checking internal circuits, etc.

❸ Power switch: Used for turning on/off the equipment.

❹ Power input Port: Used for connecting to the power adapter.

* Always use the specified adapter provided by BIOSPACE as it is a part of the InBody370. Using other adapters may result in malfunction of the InBody370.

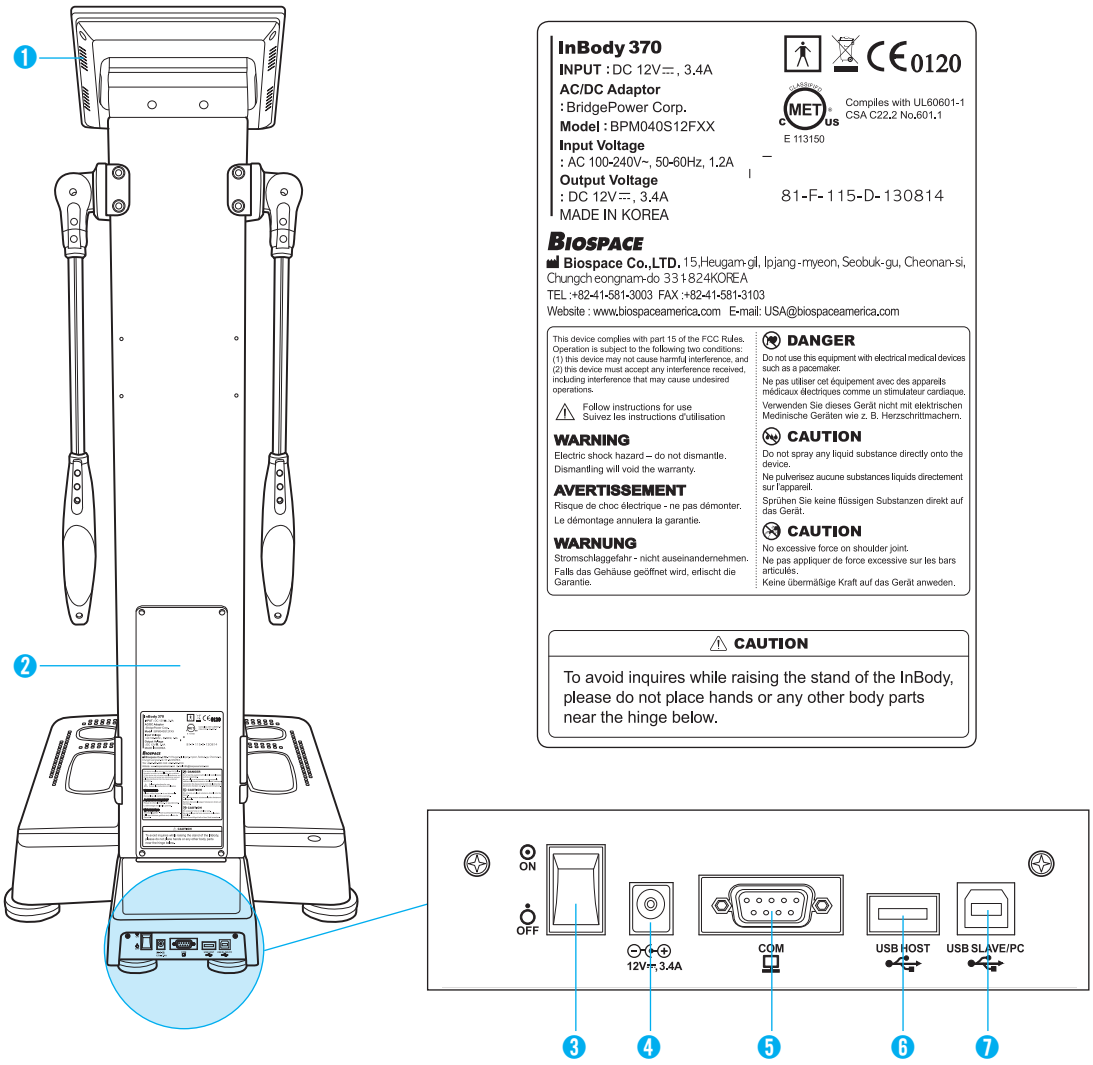
❺ 9-pin serial port (Female, RS-232C): Used for connecting the InBody370 to Lookin'Body120 installed on the computer.

* The InBody370 can be connected to Lookin' Body120 installed on a computer using the USB SLAVE port (❼).

❻ USB HOST port: Used for connecting to a printer or a USB Thumb Drive.

❼ USB SLAVE port: Used for connecting the InBody370 to Lookin'Body120 installed on a computer.

* The InBody370 can be connected to Lookin' Body120 installed on a computer using the 9-pin serial port (❺).

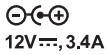

1
2
InBody 370
INPUT : DC 12V⎓, 3.4A
AC/DC Adaptor
: BridgePower Corp.
Model : BPM040S12FXX
Input Voltage
: AC 100-240V~, 50-60Hz, 1.2A
Output Voltage
: DC 12V⎓, 3.4A
MADE IN KOREA
CE 0120
Compiles with UL60601-1
CSA C22.2 No.601.1
E 113150
81-F-115-D-130814
BIOSPACE
Biospace Co.,LTD. 15,Heugam-gil, Ipjang-myeon, Seobuk-gu, Cheonan-si, Chungcheongnam-do 331-824KOREA
TEL :+82-41-581-3003 FAX :+82-41-581-3103
Website : www.biospaceamerica.com E-mail: USA@biospaceamerica.com
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operations.
Follow instructions for use
Suivez les instructions d'utilisation
WARNING
Electric shock hazard – do not dismantle.
Dismantling will void the warranty.
AVERTISSEMENT
Risque de choc électrique - ne pas démonter.
Le démontage annulera la garantie.
WARNUNG
Stromschlaggefahr - nicht auseinandernehmen.
Falls das Gehäuse geöffnet wird, erlischt die Garantie.
DANGER
Do not use this equipment with electrical medical devices such as a pacemaker.
Ne pas utiliser cet équipement avec des appareils médicaux électriques comme un stimulateur cardiaque.
Verwenden Sie dieses Gerät nicht mit elektrischen Medinische Geräten wie z. B. Herzschrittmachern.
CAUTION
Do not spray any liquid substance directly onto the device.
Ne pulverisez aucune substances liquids directement sur l'appareil.
Sprühen Sie keine flüssigen Substanzen direkt auf das Gerät.
CAUTION
No excessive force on shoulder joint.
Ne pas appliquer de force excessive sur les bars articulés.
Keine übermäßige Kraft auf das Gerät anweden.
CAUTION
To avoid inquires while raising the stand of the InBody, please do not place hands or any other body parts near the hinge below.
ON
OFF
12V⎓, 3.4A
COM
USB HOST
USB SLAVE/PC
3
4
5
6
7

B. Safety Information

Indicators

	9-pin serial port (Female, RS-232C)
	USB port

Safety Symbols

	Dangerous High Voltage
	Warning, Caution
	BF Type Equipment
 12V ⎓, 3.4A	Adapter
	Power On
	Power Off

Follow instructions for use
Suivez les instructions d'utilisation

WARNING
Electric shock hazard – do not dismantle.
Dismantling will void the warranty.

AVERTISSEMENT
Risque de choc électrique - ne pas démonter.
Le démontage annulera la garantie.

DANGER
Do not use this equipment with electrical medical device such as a pacemaker.
Ne pas utiliser cet équipement avec des appareils médicaux électriques comme un stimulateur cardiaque.

CAUTION
Do not spray any liquid substance directly onto the device.
Ne pulverisez aucune substances liquids directement sur l'appareil.

CAUTION
No excessive force on shoulder joint
Ne pas appliquer de force excessive sur les bars articulés.

C. Classification

Body Composition Analyzer of Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method

- Type of protection against electric shock: Class I
- Type of the applied parts: BF Type
- Degree of protection against water infiltration: IPX0
- EMC Immunity: Level A
- EMC Emission: Level A
- Equipment is not suitable for use in the presence of flammable mixtures.

D. Specifications

Bioelectrical Impedance Analysis (BIA) Measurement Items	Bioelectrical Impedance (Z)	15 Impedance Measurements by Using 3 Different Frequencies (5kHz, 50kHz, 250kHz) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg and Left Leg)
Electrode Method	Tetrapolar 8-Point Tactile Electrodes	
Measurement Method	Direct Segmental Multi-frequency Bioelectrical Impedance Analysis Method, DSM-BIA	
Body Composition Calculation Method	No Empirical Estimation	
Outputs	Total Body Water, Dry Lean Mass, Lean Body Mass, Body Fat Mass, Weight, Skeletal Muscle Mass, Body Mass Index, Percent Body Fat, Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg), Body Composition History (Weight, Skeletal Muscle Mass, Percent Body Fat), Body Fat-Lean Body Mass Control, Basal Metabolic Rate, Impedance at each segment/frequency * Indications for use: For use only in healthy subjects for Measurement of: • Estimated: Skeletal Muscle Mass, Extra-Cellular Water (ECW), Intra-Cellular Water (ICW), Total Body Water (TBW), ECW/TBW, Body Fat Mass, Percentage of Body Fat (PBF), Body Lean + Dry Lean, Metabolic Rates (Basal Metabolic Rates, Segmental Lean Mass • Actual: Weight, Body Mass Index (BMI) and Impedance Values, Height	
Optional Equipment	Stadiometers from BIOSPACE	
Custom Logo	Name, Address, and Contact Information can be shown on the InBody Results Sheet.	
Digital Results	LCD Monitor, Data management software Lookin'Body	
Results Sheet	InBody Results Sheet	
Voice Guidance	Provides audible indication for test in progress, test complete, and successfully saved settings changes.	
Database	Test results can be saved if the member ID is utilized. The InBody can save up to 100,000 results.	
SETUP	Configure settings and manage data	
USB Thumb Drive	Copy, backup, or restore the InBody370 data (can be viewed on the Computer software Program Lookin'Body)	

Applied Rating Current	250μA	
Adapter	Power Input	AC 100 ~ 240V, 50/60Hz, 1.2A
	Power Output	DC 12V, 3.4A
Display Type	800 × 480 7inch Color TFT LCD	
Internal Interface	Touch screen	
External Interface	RS-232C 1EA, USB HOST 1EA, USB SLAVE 1EA	
Compatible Printer	Laser/Inkjet Printers ∗ A list of printers compatible with the InBody370 can be found at http://www.inbodyservice.com	
Dimension	18.1(W) × 26.7(L) × 40.2(H): inch 460(W) × 677(L) × 1020(H): mm	
Equipment Weight	44lbs (20kg)	
Test Time	About 45 seconds	
Operation Environment	50 ~ 104°F (10 ~ 40°C), 30 ~ 75% RH, 70 ~ 106kPa	
Storage Environment	14 ~ 158°F (-10 ~ 70°C), 10 ~ 80% RH, 50 ~ 106kPa (No condensation)	
Testing Weight Range	22 ~ 551lbs (10 ~ 250kg)	
Testing Age Range	3 ~ 99 years	
Testing Height Range	3 ft. 1.4in. ~ 7ft. 2.6in. (95 ~ 220cm)	

∗ Specifications can be changed without a prior notice.

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